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2. An audio headset according to claim 1 including an acoustical isolator positioned within the first ear piece for substantially isolating the microphone from audio signals attributed to bone conduction, the acoustical isolator comprising a piece of material extending inside the first earpiece and suspending the microphone inside the first ear piece.

3. An audio headset according to claim 2 wherein the acoustical isolator comprises a foam, paper, plastic, wood, or fiber material, the acoustical isolator having sides extending against inside walls of the first earpiece and a center portion surrounding sides of the microphone.

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4. An audio headset according to claim 1 wherein the first ear piece includes only a single microphone for locating in an external ear canal in a first ear of a user, the first ear piece containing no other microphones or ear phones and the second ear piece includes only a single ear phone for locating in a second ear of the user, the second ear piece containing no other microphones or earphones.

5. An audio headset according to claim 1 including a first wire coupled from the microphone to a first ring connection for outputting the transmit signals, a second wire coupled from the earphone to a second tip connection for receiving the receive signals, and a third wire for coupling the microphone and the earphone to a ground connection.

Sub B3

6. An audio headset according to claim 5 wherein the first, second and third wires are contained within a single flexible cord .

7. An audio headset according to claim 5 wherein the first connection, second connection and the ground connection each comprise separate connections on a plug connector.

8. An audio headset according to claim 1 wherein the microphone includes a piezo electric transducer.

9. An audio headset according to claim 8 including a transistor having a first gating

terminal coupled to a first terminal of the transducer, a second output terminal for outputting the transmit signal, and a third terminal for coupling to a ground connection.

Sub B4
A2 10. An audio headset according to claim 9 including a filter circuit coupled across the second and third terminals of the transistor for filtering out low audio frequencies from the transmit signals, the filter including an inductor and a capacitor.

Sub B4 11. An audio headset according to claim 1 wherein the microphone comprises an electret.

12. An audio headset according to claim 1 wherein the first ear piece and the second ear piece each include a housing adapted to insert within an external ear canal of a user, the microphone positioned within the housing for converting voice signals from the user into the transmit signals.

A3 Sub B5 13. A method for operating a full duplex headset, comprising:
adapting a first ear piece for receiving audio signals from a voice of a user while located within a first ear of the user providing an audio talk source for the user;
converting the received audio signals from the first ear piece into transmit signals for outputting through a first connector as an audio output signal;
adapting a second ear piece for receiving receive signals through a second connector while located within a second ear of the user providing an audio listening source for the user;
and
outputting the receive signals through a transducer in the second ear piece into the second ear of the user.

14. A method according to claim 13 including surrounding a foam, paper, plastic, wood, or fiber material about the microphone to acoustically isolate a microphone in the first ear piece from audio signals attributed to bone conduction.

15. A method according to claim 13 including using a piezoelectric transducer in the first ear piece for generating the electrical transmit signals.

16. A method according to claim 13 including:

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outputting the transmit signals from a first ring wire in the headset;
receiving the receive signals from a second tip wire in the headset; and
grounding the first ear piece and the second ear piece with a third wire in the headset.

17. A method according to claim 16 including terminating the first, second and third wires with separate terminals on an external connector for coupling to audio telephony or recording devices.

18. A method according to claim 13 including using an output of a piezo electric transducer in the first ear piece for generating the transmit signals.

19. A method according to claim 18 including using the transmit signal output from the piezo electric transducer for controlling a transistor output and using the transistor output as the transmit signals.

20. A method according to claim 19 including electrically filtering out low audio frequencies from the transmit signals.

21. A method according to claim 13 including:

locating only a single microphone in the first earpiece without providing any other microphones or earphones in the first earpiece;

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locating only a single earphone in the second earpiece without providing any other microphones or earphones in the second earpiece;

inserting the first and second ear piece into opposite external ear canals of the user;
and

positioning the microphone within the first earpiece for converting voice signals within the inserted external ear canal into the transmit signals.